DETAIL OF PRECAST CONCRETE BOX CULVERT M259

(WITH EQUAL TO OR GREATER

AASHO DESIGNATION M259 (ASTM DESIGNATION C-789) DESIGN LOADING = HS20-44

THAN 2 FEET OF COVER)

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04(a) OF

E PRECAST BOX SECTIONS SHALL BE SEALED TH ARTICLE 542.04(d) OF THE STANDARD OR ROAD AND BRIDGE CONSTRUCTION.

ss , AND AM DENOTE THE REQUIRED STEEL AREAS NT AS SPECIFIED IN ASSHTO M259. REINFORCEMENT WIRE FABRIC CONFORMING TO ASSHTO M55.

STRENGTH SHALL BE 5000 PSI AFTER

ALL BE FILLED WITH CONCRETE PLUGS AND BOX SECTIONS ARE IN PLACE.

S SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, LOCATION HE OPENINGS SHALL BE SHOWN ON THE SHOP

SEE DETAIL A	JEE BETAIL B	THE STANDARD SPEC
2" HOLES FOR LIFTING DEVICE (IN TOP ONLY) PLAN LOCATION OF LIFTING HOLES MAY BE VARIED AS NEEDED TO CLEAR REINFORCEMENT.	4	MINIMUM CONCRETE S 28 DAYS. THE JOINTS OF THE IN ACCORDANCE WITH SPECIFICATIONS FOR THE TERMS AN AS FOR REINFORCEMENT SHALL BE WELDED W LIFTING HOLES SHAL MASTIC AFTER THE L DRAINAGE OPENINGS ARTICLE 503.12 OF 1 AND SPACING OF THE DRAWINGS.
		MULTIPLE UNIT PLACEMENT
SECTION LENGTH	-	MOLITICE ONLY LAGEMENT
WHEN EXTENDING AN EXISTING BOX, PLACE THIS END AGAINST THE EXISTING HEADWALL.		A I" CL.(TYP.)
	8	ASI C (TYP.) I'' CL.(TYP.) INTERIOR FACE T ASA SPAN I'' CL.(TYP.) I'' CL.(TYP.) I'' CL.(TYP.) I'' CL.(TYP.)
		/
		LONGITUDINAL REINFORCEMENT
ELEVATION		CROSS SECTION

DETAIL B

(TYP. OUTLET END)

SEE DETAIL B

(FOOT) (INCHES) FT-IN FT-IN (INCHES) 2x2 4 2-8 2-8 4 3x2 4 3-8 2-8 4 3x3 4 3-8 3-8 4 4x2 5 4-10 2-10 5 4x3 5 4-10 3-10 5 4x4 5 4-10 4-10 5 5x2 6 6-0 3-0 6 5x3 6 6-0 4-0 6 5x4 6 6-0 5-0 6 5x5 6 6-0 5-0 6 6x4 7 7-2 3-2 7 6x4 7 7-2 4-2 7 6x5 7 7-2 4-2 7 6x6 7 7-2 7-2 7-2 7 7x3 8 8-4 4-4 8 8-4 7-4 8	SPANXRIS	E	Т	Α	В	С
3x2 4 3-8 2-8 4 3x3 4 3-8 3-8 4 4x2 5 4-10 2-10 5 4x3 5 4-10 3-10 5 4x4 5 4-10 4-10 5 5x2 6 6-0 3-0 6 5x3 6 6-0 4-0 6 5x4 6 6-0 5-0 6 5x5 6 6-0 6-0 6-0 6x2 7 7-2 3-2 7 6x3 7 7-2 3-2 7 6x4 7 7-2 5-2 7 6x5 7 7-2 5-2 7 6x6 7 7-2 7-2 7-2 7 7x3 8 8-4 4-4 8 8-4 7-4 8 7x4 8 8-4 5-4 8 8-4 7-4	(FOOT)	(INCHES)	FT-IN	FT-IN	(INCHES)
4x3 5 4-10 3-10 5 5x2 6 6-0 3-0 6 5x3 6 6-0 4-0 6 5x4 6 6-0 5-0 6 5x5 6 6-0 6-0 6-0 6x2 7 7-2 3-2 7 6x3 7 7-2 4-2 7 6x4 7 7-2 5-2 7 6x5 7 7-2 6-2 7 7x3 8 8-4 4-4 8 7x4 8 8-4 5-4 8 7x5 8 8-4 5-4 8 7x6 8 8-4 7-4 8 7x7 8 8-4 8-4 8 8x4 8 9-4 3-4 8 8x4 8 9-4 3-4 8 8x5 8 9-4 3-4 8 8x6 8 9-4 7-4 8 8x7 8 9-4 7-4 8 8x7 8 9-4 7-4 8 8x8 8 9-4 7-4 8 8x7	3x2		4	3-8	2-8	4
5x3 6 6-0 4-0 6 5x4 6 6-0 5-0 6 6x2 7 7-2 3-2 7 6x3 7 7-2 4-2 7 6x4 7 7-2 5-2 7 6x5 7 7-2 6-2 7 6x6 7 7-2 6-2 7 7x3 8 8-4 4-4 8 7x4 8 8-4 5-4 8 7x5 8 8-4 5-4 8 7x6 8 8-4 7-4 8 7x7 8 8-4 8-4 8 8x4 8 9-4 3-4 8 8x4 8 9-4 3-4 8 8x4 8 9-4 5-4 8 8x5 8 9-4 7-4 8 8x6 8 9-4 7-4 8	4x3		5	4-10	3-10	5
6x3 7 7-2 4-2 7 6x4 7 7-2 5-2 7 6x5 7 7-2 6-2 7 7x3 8 8-4 4-4 8 7x4 8 8-4 5-4 8 7x5 8 8-4 6-4 8 7x6 8 8-4 7-4 8 7x7 8 8-4 8-4 8 7x6 8 8-4 8-4 8 7x7 8 8-4 8-4 8 8x2 8 9-4 3-4 8 8x4 8-4 8-4 8 8x5 8 9-4 3-4 8 8x5 8 9-4 7-4 8 8x7 8 9-4 7-4 8 8x7 8 9-4 7-4 8 8x8 8 9-4 9-4 8 9x	5x3 5x4		6 6	6-0 6-0	4-0 5-0	6 6
7x4 8 8-4 5-4 8 7x5 8 8-4 6-4 8 7x6 8 8-4 7-4 8 8x2 8 9-4 8-4 8 8x4 8 9-4 5-4 8 8x5 8 9-4 6-4 8 8x6 8 9-4 7-4 8 8x7 8 9-4 7-4 8 8x8 8 9-4 7-4 8 8x7 8 9-4 7-4 8 8x7 8 9-4 7-4 8 8x8 8 9-4 7-4 8 8x8 8 9-4 7-4 8 8x8 8 9-4 7-6 9 9x6 9 10-6 6-6 9 9x7 9 10-6 8-6 9 9x8 9 10-6 9-6 9	6x3 6x4 6x5		7 7 7	7-2 7-2 7-2	4-2 5-2 6-2	7 7 7
8x4 8 9-4 5-4 8 8x5 8 9-4 6-4 8 8x6 8 9-4 7-4 8 8x7 8 9-4 8-4 8 8x8 8 9-4 9-4 8 9x5 9 10-6 6-6 9 9x6 9 10-6 7-6 9 9x7 9 10-6 8-6 9 9x8 9 10-6 9-6 9 9x9 9 10-6 10-6 9 9x9 9 10-6 10-6 9 9x8 9 10-6 9-6 9 9x9 9 10-6 10-6 9 10x5 10 11-8 6-8 10 10x7 10 11-8 7-8 10 10x8 10 11-8 9-8 10 10x9 10 11-8 10-8	7x4 7x5 7x6		8 8 8	8 - 4 8 - 4 8 - 4	5-4 6-4 7-4	8 8 8
9x6 9 10-6 7-6 9 9x7 9 10-6 8-6 9 9x8 9 10-6 9-6 9 9x9 9 10-6 10-6 9 10x5 10 11-8 6-8 10 10x6 10 11-8 7-8 10 10x7 10 11-8 8-8 10 10x8 10 11-8 9-8 10 10x9 10 11-8 10-8 10 10x10 10 11-8 11-8 10 11x4 11 12-10 5-10 11 11x6 11 12-10 7-10 11 11x8 11 12-10 9-10 11 11x10 11 12-10 11-10 11	8x4 8x5 8x6 8x7		8 8 8 8	9-4 9-4 9-4 9-4	5-4 6-4 7-4 8-4	8 8 8 8
10x6 10 11-8 7-8 10 10x7 10 11-8 8-8 10 10x8 10 11-8 9-8 10 10x9 10 11-8 10-8 10 10x10 10 11-8 11-8 10 11x4 11 12-10 5-10 11 11x6 11 12-10 7-10 11 11x8 11 12-10 9-10 11 11x10 11 12-10 11-10 11	9x6 9x7 9x8		9 9 9	10-6 10-6 10-6	7-6 8-6 9-6	9 9 9
11x6 11 12-10 7-10 11 11x8 11 12-10 9-10 11 11x10 11 12-10 11-10 11	10x6 10x7 10x8 10x9	1 1 1	0 0 0 0	11-8 11-8 11-8 11-8	7-8 8-8 9-8 10-8	10 10 10 10
	11x6 11x8 11x10		1 1 1	12-10 12-10 12-10	7-10 9-10 11-10	11 11 11

CULVERT

SIZE

12x6

12x8

12x10

12x12

12 12

SECTION

DIMENSIONS

*(6,7)Y, RS-1, 6B-1, 7B-1, 7BR-2 CONTRACT NO. 94356

COUNTY

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

TOTAL SHEET NO. EFFINGHAM 409 140

ILLINOIS DEPARTMENT OF TRANSPORTATION DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION

10-0

12-0

14-0

14-0

14-0

14-0

14-0

DRAWN BY DIST. 7 DATE REVISED: 05/28/99 CHECKED BY BWC

12

12

12

12

DETAIL A

NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE.

(TYP. INLET END)

* THE D DIMENSION SHALL CONFORM TO THE

MANUFACTURER'S STANDARDS.

SEE DETAIL A